

TABLE S-5 Summary of Major EIS Data and Assumptions

Parameter/Characteristic	Data/Assumption
General	
Portsmouth DUF ₆ cylinder inventory	16,109 cylinders; 195,800 t (216,000 tons)
Portsmouth non-DUF ₆ cylinder inventory	2,693 cylinders; 13,500 t (14,900 tons)
ETTP DUF ₆ cylinder inventory	4,822 cylinders; 54,300 t (60,000 tons)
ETTP non-DUF ₆ cylinder inventory	1,102 cylinders; 26 t (27 tons)
No Action Alternative	
	No conversion facility constructed; continued long-term storage of DUF ₆ and non-DUF ₆ in cylinders at Portsmouth and ETTP.
Assessment period	Through 2039, plus long-term impacts
Construction	None
Cylinder management	Continued surveillance and maintenance activities consistent with current plans and procedures.
Assumed total number of future cylinder breaches:	
Controlled-corrosion case	16 at Portsmouth; 7 at ETTP
Uncontrolled-corrosion case	74 at Portsmouth; 213 at ETTP
Action Alternatives	
	Build and operate a conversion facility at the Portsmouth site for conversion of the Portsmouth and ETTP DUF ₆ inventories; construct a new cylinder storage yard at Portsmouth for ETTP cylinders.
Construction start	2004
Construction period	≈2 years
Start of operations	2006
Operational period	18 years (14 years if ETTP cylinders are converted at Paducah)
Facility footprint	10 acres (4 ha)
Facility throughput	13,500 t/yr (15,000 tons/yr) DUF ₆
Conversion products	
Depleted U ₃ O ₈	10,800 t/yr (11,800 tons/yr)
CaF ₂	18 t/yr (20 tons/yr)
70% HF acid	2,500 t/yr (2,800 tons/yr)
49% HF acid	5,800 t/yr (6,300 tons/yr)
Steel (empty cylinders, if not used as disposal containers)	1,177 t/yr (1,300 tons/yr)